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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,505	01/12/2007	Ralf Hochhausen	ZTP03P01879	2884
	7590 04/04/200 E NBERG STEMER L	EXAMINER		
P O BOX 2480		MCCLOUD, RENATA D		
HOLLYWOOD, FL 33022-2480			ART UNIT	PAPER NUMBER
			2837	
			MAIL DATE	DELIVERY MODE
			04/04/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/582,505	HOCHHAUSEN ET AL.	
Office Action Summary	Examiner	Art Unit	
	RENATA MCCLOUD	2837	
The MAILING DATE of this communication a Period for Reply	nppears on the cover sheet with th	e correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perion. - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATI 1.136(a). In no event, however, may a reply be od will apply and will expire SIX (6) MONTHS fr tute, cause the application to become ABANDO	ON. e timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on <u>09</u>	his action is non-final. vance except for formal matters,		
Disposition of Claims			
4) ☐ Claim(s) 13-22 is/are pending in the applicate 4a) Of the above claim(s) is/are withd 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 13-16 is/are rejected. 7) ☐ Claim(s) 17-22 is/are objected to. 8) ☐ Claim(s) are subject to restriction and are subjected to by the Exami 10) ☐ The drawing(s) filed on is/are: a) ☐ a Applicant may not request that any objection to the subjection to the subjection of the subjection to th	rawn from consideration. d/or election requirement. iner. ccepted or b) □ objected to by th		
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the		•	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received. ents have been received in Applic riority documents have been rece eau (PCT Rule 17.2(a)).	ation No ived in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 6/9/06.	4) Interview Summ Paper No(s)/Mai 5) Notice of Informa 6) Other:		

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 13,14 rejected under 35 U.S.C. 102(b) as being anticipated by Atmur (US20030001538)

Claim 13: A method for controlling a brushless DC motor, which comprises iteratively repeating the following method steps for adjusting an operating point of the motor for a predetermined setpoint speed: adjusting the speed of the motor to a value of the setpoint speed by varying an average terminal voltage of the motor, and thereby determining the average terminal voltage of the motor by pulse width modulation (par 0005); detecting a average power requirement of the motor and a lead angle between a rotor of the motor and a driving magnetic field (par 0021, 0038); and approximating the lead angle to a predetermined desired value as a function of the speed and the average power requirement (par 0022).

Claim 14: the desired value is a value of the lead angle that maximizes an efficiency of the motor for respectively associated values of the speed and average power requirement (par 0040).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 15,16 rejected under 35 U.S.C. 103(a) as being unpatentable over Atmur in view of Heglund (US5936386)

Claim 15: Atmur teaches the method according to claim 14. Referring to claim 15, Atmur does not teach determining the desired value of the lead angle from a characteristic map.

Heglund teaches determining desired variables from a map (Col. 2:14-42). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the method of Atmur to use a map as taught by Heglund in order to control the motor.

Claim 16: Heglund teaches obtaining desired variable by interpolation (col. 2:14-42)

Allowable Subject Matter

5. Claims 17-22 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RENATA MCCLOUD whose telephone number is (571)272-2069. The examiner can normally be reached on Mon.- Fri. from 5:30 am - 2pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lincoln Donovan can be reached on (571) 272-2800 ext. 37. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Renata McCloud Primary Examiner Art Unit 2837

/R. M./ Primary Examiner, Art Unit 2837